



SEQUENCE LISTING

<110> DESPRES, PHILLIPE
CATTEAU, ADELINE

<120> ATTENUATED FLAVIVIRUS STRAINS CONTAINING A MUTATED M-ECTODOMAN
AND THEIR APPLICATIONS

<130> 239783US0

<140> 10/608,029

<141> 2003-06-30

<160> 36

<170> PatentIn version 3.2

<210> 1

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide

<400> 1

gacaaacgtt ccgtggctct gtgacacacg tgggacttgg tctag

45

<210> 2

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide

<400> 2

ctattcccaag cggccgctag gccattgatg gtg

33

<210> 3

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide

<400> 3

cacagaagac tgtacagatc agtggcactc gttcc

35

<210> 4

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide

<400> 4

atattccttag cggccgctat gtcattgaag gagcg

35

<210> 5

<211> 42

<212> DNA

<213> Artificial Sequence

<220> synthetic oligonucleotide
<223> synthetic oligonucleotide
<400> 5
agacgcgtgt acagatcagt ggcgttagct ccccatgtcg cc 42

<210> 6
<211> 43
<212> DNA
<213> Artificial Sequence

<220> synthetic oligonucleotide
<223> synthetic oligonucleotide
<400> 6
gtttccgcgg ccgccacatc ttcatgtcat aggtgggta acc 43

<210> 7
<211> 40
<212> DNA
<213> Artificial Sequence

<220> synthetic oligonucleotide
<223> synthetic oligonucleotide
<400> 7
agacgagtgt acagctcagt agcttaaca ccacattcgg 40

<210> 8
<211> 42
<212> DNA
<213> Artificial Sequence

<220> synthetic oligonucleotide
<223> synthetic oligonucleotide
<400> 8
tgtttccgcg gccgcccgt cgtcatccgt aggatgggc ga 42

<210> 9
<211> 44
<212> DNA
<213> Artificial Sequence

<220> synthetic oligonucleotide
<223> synthetic oligonucleotide
<400> 9
aagcgaatgt acagatccgt gtcggtccaa acacatgggg agag 44

<210> 10
<211> 43
<212> DNA
<213> Artificial Sequence

<220> synthetic oligonucleotide
<223> synthetic oligonucleotide
<400> 10
attgccgcgg ccgcgacaat ttcaactgta agccggagcg acc 43

<210> 11

<211> 30		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> synthetic oligonucleotide		
<400> 11		
agacgcatgt acaggtcact gacagtgcag		30
<210> 12		
<211> 30		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> synthetic oligonucleotide		
<400> 12		
cattccgcgg ccgctctagc tgtaagctgg		30
<210> 13		
<211> 43		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> synthetic oligonucleotide		
<400> 13		
aggaggttgt acagggccat tgactgcct acgcatgaaa acc		43
<210> 14		
<211> 43		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> synthetic oligonucleotide		
<400> 14		
tgtcagtgcg gccgctgcag tgtcatgagt aggccggacc aac		43
<210> 15		
<211> 23		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> synthetic oligonucleotide		
<400> 15		
ttttggcagt acatcaatgg gcg		23
<210> 16		
<211> 38		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> synthetic oligonucleotide		
<400> 16		
aagatcgcgg ccgcaattca ctggacatgt ttccaggc		38

<210> 17
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 17
tttccgcggc cgctctgatc acatccatgt ttcagttcag 40

<210> 18
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 18
tggttctgtta catggaaatg ggactggaga cacg 34

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 19
tcttgcgatt cattcagggc accg 24

<210> 20
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 20
actgaaatgt acatgtcatc agaaggggcc tgg 33

<210> 21
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 21
atgtccctgtta cattgaaact tggatcttga g 31

<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide derived from DEN-2

<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa is absent or present and represents A, V, L, I, P, F, W, M, C, G, S, T, Y, N or Q

<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa is absent or present and represents D, E, A, V, L, I, P, F, W, M, C, G, S, T, Y, N or Q

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is K, R, H, A, V, L, I, P, F, W, M, C, G, S, T, Y, N or Q

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is any amino acid except A, L or I

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is A, V, L, I, P, F, W, M, or C

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa is K, R, or H

<220>
<221> misc_feature
<222> (8)..(8)
<223> Xaa is K, R, H, G, S, T, Y, N, or Q

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is absent or present and is K, R, H, A, V, L, I, P, F, W, M, or C

<400> 22

Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa
1 5

<210> 23
<211> 39
<212> PRT
<213> Dengue virus

<400> 23

Ser Val Ala Leu Val Pro His Val Gly Met Gly Leu Glu Thr Arg Thr
1 5 10 15

Glu Thr Trp Met Ser Ser Glu Gly Ala Trp Lys His Gln Arg Ile Glu
20 25 30

Thr Trp Ile Leu Arg His Pro
35

<210> 24
<211> 40
<212> PRT
<213> Dengue virus

<400> 24

Ala Ile Asp Leu Pro Thr His Glu Asn His Gly Leu Lys Thr Arg Gln
1 5 10 15

Glu Lys Trp Met Thr Gly Arg Met Gly Glu Arg Gln Leu Gln Lys Ile
20 25 30

Glu Arg Trp Phe Val Arg Asn Pro
35 40

<210> 25
<211> 40
<212> PRT
<213> Dengue virus

<400> 25

Ala Ile Asp Leu Pro Thr His Glu Asn His Gly Leu Lys Thr Arg Gln
1 5 10 15

Glu Lys Trp Met Thr Gly Arg Met Gly Glu Arg Gln Leu Gln Lys Ile
20 25 30

Glu Thr Trp Ile Leu Arg His Pro
35 40

<210> 26
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 26
agagtcgcgg ccgcaaatca ggggttcctc ccaaccatct ctc

43

<210> 27
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 27
agagtcgcgg ccgcaaatca ggggtgcctc aggtatccatg tctcaatctt ttggagttgc

60

c

61

<210> 28
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide
 <400> 28
 tagagtcgcg gccgcgaatc atggatgtct caagaaccaa gtttc 45

<210> 29
 <211> 39
 <212> PRT
 <213> Dengue virus

<400> 29
 Ser Val Ala Leu Val Pro His Val Gly Met Gly Leu Glu Thr Arg Thr
 1 5 10 15

Glu Thr Trp Met Ser Ser Glu Gly Ala Trp Lys His Gln Arg Ile Glu
 20 25 30

Thr Trp Phe Leu Arg His Pro
 35

<210> 30
 <211> 90
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> recombinant plasmid vector sequence

<400> 30
 gctagcgcta ccggactcag atctcgagct caagcttcga attctgcagt cgacggtacc 60
 gcggggcccg gatccccggt cgccaccatg 90

<210> 31
 <211> 28
 <212> PRT
 <213> Dengue virus

<400> 31
 Met Asn Arg Arg Lys Arg Ser Val Thr Met Leu Leu Met Leu Leu Pro
 1 5 10 15

Thr Ala Leu Ala Arg Asp Pro Pro Val Ala Thr Met
 20 25

<210> 32
 <211> 91
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> recombinant plasmid vector sequence

<400> 32
 gctagcaatg aacaggagga aaagatccgt gaccatgctc ctcatgctgc tgcccacagc 60
 cctggggcccg gatccaccgg tcgcccaccat g 91

<210> 33
<211> 8
<212> PRT
<213> Dengue virus

<400> 33

Leu Ala Met Glu Glu Leu Tyr Asn
1 5

<210> 34
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant plasmid vector sequence

<400> 34
ctcggcatgg acgagctgta caagtaaagc ggccgcactc ta

42

<210> 35
<211> 48
<212> PRT
<213> Dengue virus

<400> 35

Leu Ala Met Glu Glu Leu Tyr Arg Ser Val Ala Leu Val Pro His Val
1 5 10 15

Gly Met Gly Leu Glu Thr Arg Thr Glu Thr Trp Met Ser Ser Glu Gly
20 25 30

Ala Trp Lys His Val Gln Arg Ile Glu Thr Trp Phe Leu Arg His Pro
35 40 45

<210> 36
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant plasmid vector sequence

<400> 36
ctcggcatgg acgagctgta cagatcagtg gcactcggtt tcttgagaca tccatgagcg

60

gccgcgcactc

70